

PATENT
450101-02142**IN THE CLAIMS**

This listing of claims will replace all prior versions, and listings, of claims in the application. An identifier indicating the status of each claim is provided.

Listing of Claims

1-9 (canceled)

10. (previously presented) An information processing device comprising:

first storage means, for storing an encrypted first key encrypted by a second key,
the first storage means comprising:

first authentication means for authenticating and generating a temporary key;

first encrypting/decrypting means for decrypting the encrypted first key with the
second key, and for encrypting the first key with the temporary key; and

transmitting means for transmitting the encrypted first key with the temporary
key;

decoding means comprising:

second authentication means for authenticating the first storage means and
sharing the temporary key with the first storage means;

receiving means for receiving the encrypted first key with the temporary
key from the first storage means; and

second encrypting/decrypting means for decrypting the encrypted first
key with the temporary key;

PATENT
450101-02142

wherein the decoding means decodes the information with the first key obtained by the second encrypting/decrypting means.

11. (previously presented) An information processing method comprising:

- a first storage step of storing an encrypted first key encrypted by a second key;
- a first authentication step of authenticating the first storage step and generating a temporary key;
- a first encrypting/decrypting step of decrypting the encrypted first key with the second key, and encrypting the first key with the temporary key;
- transmitting the encrypted first key with the temporary key;
- a first decoding step that includes a second mutual authentication step of authenticating the first storage step and for sharing the temporary key with the first storage step;
- receiving the encrypted first key with the temporary key;
- a second encrypting/decrypting step of decrypting the encrypted first key with the temporary key; and
- a second decoding step of decoding the information with the first key obtained by the second encrypting/decrypting step.

12. (previously presented) A program providing medium for providing a computer-readable program with respect to an information processing device comprising:

- a first storage step of storing an encrypted first key encrypted by a second key;
- a first authentication step of authenticating and generating a temporary key;

PATENT
450101-02142

a first encrypting/decrypting step of encrypting/decrypting the encrypted first key with the second key and for encrypting the first key with the temporary key;
transmitting the encrypted first key with the temporary key;
the program causing the decoding means to execute processing comprising:
a second authentication step of authenticating the first storage step and for sharing the temporary key with the first storage step;
receiving the encrypted first key with the temporary key from the first storage step;
a second encrypting/decrypting step of decrypting the encrypted first key with the temporary key; and
a third decoding step of decoding the information with the first key obtained by the second encrypting/decrypting step.

13-71 (canceled)